

WHAT IS CLAIMED IS:

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1. An original data circulation system for storing or circulating original data which is digital information, said system comprising:
- an apparatus including: means for
- 10 generating first information corresponding to an issuer apparatus for issuing data; means for sending said first information; and means for sending second information corresponding to said data; and
- an apparatus including: means for
- 15 verifying validity of said first information which is received; means for verifying that an issuing apparatus corresponding to valid first information is valid; and means for determining that data corresponding to said second information is valid
- 20 when said issuer apparatus is valid.
- 25 2. An original data circulation method in an original data circulation system for storing or circulating original data which is digital information, said method comprising the steps of:
- generating first information corresponding
- 30 to an issuer apparatus for issuing data;
- sending said first information;
- sending second information corresponding to said data;
- verifying validity of said first
- 35 information which is received;
- verifying that an issuing apparatus corresponding to valid first information is valid;

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and

determining that data corresponding to said second information is valid when said issuer apparatus is valid.

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3. A data storing method of storing  
10 digital information which has a value, comprising the steps of:

generating first information which is digital information with a signature signed by an issuer apparatus of said digital information;

15 generating, by said issuer apparatus, second information, said second information being a manifest corresponding to said digital information;

verifying, by a user apparatus, identity of said issuer apparatus by using said first  
20 information and said second information; and

preventing reproduction of said digital information.

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4. The data storing method as claimed in claim 3, comprising the steps of:

obtaining a verification key issued by a  
30 server which is stringently managed concerning issuance of digital information;

generating, by said user apparatus, session information from said verification key; and  
verifying validity of said session

35 information.

5                    verifying the identity of said issuer  
apparatus by storing said second information in a  
tamper-proof device; and  
                  preventing reproduction of said digital  
information.

6. A data storing system for storing  
15 digital information which has a value, comprising:  
an issuer apparatus for generating first  
information which is digital information with a  
signature and generating second information which is  
a manifest corresponding to said digital  
20 information; and

a user apparatus for verifying the identity of said issuer apparatus by using said first information and said second information; and preventing reproduction of said digital information.

30 7. The data storing system as claimed in  
claim 6, said user apparatus further comprising  
means for obtaining a verification key issued by a  
server which is stringently managed concerning issue  
of digital information;

35           said data storing system further  
comprising a collector apparatus including:  
            means for generating session information

from a verification key; and  
means for verifying the validity of said  
session information.

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8. The data storing system as claimed in  
claim 6, said user apparatus further comprising:  
means for verifying the identity of said  
issuer apparatus by storing said second information  
in a tamper-proof device; and  
preventing reproduction of said digital  
information.

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9. A user apparatus for using digital  
information in a data storing system for storing  
digital information which has a value, comprising:

first storing means for storing and  
extracting digital information with a signature;

second storing means for storing and  
extracting a manifest corresponding to digital  
information;

first authentication means for verifying  
that said manifest is valid; and

first control means for storing said  
manifest in said second storing means only when said  
first authentication means verifies that said  
manifest is valid.

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10. The user apparatus as claimed in claim

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means for	extracting said manifest from
said second storing	means when said user apparatus
moves said manifest	from said second storing means

to another storing means;

means for providing said manifest a  
signature by using said signature means;

means for deleting said manifest from said  
5 second storing means;

means for verifying that the signer of  
said manifest is trusted by the signer of said  
digital information by using said second  
authentication means; and

10 means for storing said manifest to said  
another storing means only when the verification  
succeeds.

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13. The user apparatus as claimed in claim  
9, further comprising:

session information generation means for  
20 generating session information which has uniqueness  
in said data storing system;

said session information including a  
verification key of said user apparatus and a serial  
number, being stored in said user apparatus, and  
25 sent to a sending party of said manifest;

wherein said user apparatus receives said  
manifest and said session information from said  
sending party and verifies that validity of received  
session information by using stored session  
30 information such that said user apparatus prevents  
reproduction of said manifest.

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14. An issuer apparatus for issuing  
digital information in a data storing system for

storing digital information which has a value, said issuer apparatus comprising:

5 accredited information generation means for generating accredited information which includes a set of information representing an accredited object trusted by the signer of said digital information;

10 signature means for providing a signature to said digital information and to said accredited information;

manifest generation means for generating said manifest;

15 means for sending said digital information and said accredited information to a user apparatus;

means for receiving session information which includes a verification key of said user apparatus and a serial number; and

20 means for sending information including said manifest and said session information by using a verification key and a signature function of said issuer apparatus.

25 15. A collector apparatus for exercising a right of digital information in a data storing system for storing digital information which has a value, said collector apparatus comprising:

30 means for receiving digital information with a signature of the issuer and accredited information with said signature from a user apparatus;

35 means for generating session information which has uniqueness in said data storing system and sending said session information to said user apparatus;

means for receiving information including said manifest and said session information from said user apparatus; and

means for verifying that said session  
5 information, said manifest and said accredited information are valid.

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16. A data storing system for storing digital information which has a value, said data storing system comprising:

a user apparatus for using digital  
15 information;

an issuer apparatus for issuing digital information; and

a collector apparatus for exercising a right of digital information;

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said user apparatus including:

first storing means for storing and extracting digital information with a signature;

second storing means for storing and extracting a manifest corresponding to digital  
25 information;

first authentication means for verifying that said manifest is valid; and

first control means for storing said manifest in said second storing means only when said  
30 first authentication means verifies that said manifest is valid;

said issuer apparatus including:

accredited information generation means for generating accredited information which includes  
35 a set of information representing an accredited object trusted by the signer of said digital information;



manifest generation means for generating  
5 said manifest;

means for receiving session information  
which includes a verification key of said user  
10 apparatus and a serial number; and

15           said collector apparatus including:

20 means for generating session information  
which has uniqueness in said data storing system and  
sending said session information to said user  
apparatus;

means for verifying that said session information, said manifest and said accredited information are valid.

17. A computer readable medium storing  
35 program code for causing a computer to store digital  
information which has a value, said computer being  
used as an issuer apparatus in a data storing system.

program code means for generating first information which is digital information with a signature; and

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first storing program code means for  
storing digital information with a signature in a  
10 first storing means and extracting said digital  
information with a signature;

first authentication program code means  
for verifying that said manifest is valid; and

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program code means for determining whether  
said digital information stored in said first  
storing means is valid by verifying that said  
30 manifest corresponding to said information is stored  
in said second storing means; and

program code means for determining that  
said digital information is valid only when said  
manifest is stored in said second storing means and  
35 determining that said digital information is invalid  
when said manifest is not stored in said second  
storing means.

5           22. The computer readable medium as  
claimed in claim 20, comprising:

signature program code means for providing  
a signature to digital information;

10           second authentication program code means  
for verifying that the signer of said manifest is  
included in accredited objects and for verifying  
that the signer of accredited information and the  
signer of said digital information;

15           program code means for extracting said  
manifest when said user apparatus moves said  
manifest;

program code means for providing a  
signature to said manifest by using said signature  
program code means;

20           program code means for deleting said  
manifest from said second storing means;

program code means for verifying that the  
signer of said manifest is trusted by the signer of  
said digital information by using said second  
25 authentication program code means; and

program code means for moving said  
manifest only when the verification succeeds.

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23. A computer readable medium storing  
program code for causing a computer to store digital  
information which has a value, said computer being  
35 used as an issuer apparatus in a data storing system,  
said computer readable medium comprising:

accredited information generation program

5                   signature program code means for providing  
a signature to said digital information and to said  
accredited information;  
                  manifest generation program code means for  
generating said manifest;  
10                  program code means for sending said  
digital information and said accredited information  
to a user apparatus;  
                  program code means for receiving session  
information which includes a verification key of  
15                  said user apparatus and a serial number; and  
                  program code means for sending information  
including said manifest and said session information  
by using a verification key and a signature function  
of said issuer apparatus.  
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program code means for receiving digital  
30 information with a signature of the issuer and  
accredited information with said signature from a  
user apparatus;

program code means for receiving

information including said manifest and said session information from said user apparatus; and

program code means for verifying that said session information, said manifest and said  
5 accredited information are valid.

10 25. An original data circulation method in an original data circulation system for storing or circulating original data which is digital information, said method comprising:

15 a sending step of sending, by a first apparatus, originality information, said originality information including first information which corresponds to an apparatus and second information which is data or information corresponding to the data; and

20 an identifying step of identifying, by a second apparatus, a source apparatus of said originality information;

a first authentication step of determining that said originality information is valid when said  
25 source apparatus is authenticated; and

a second authentication step of determining that said originality information is valid only when said source apparatus and an apparatus corresponding to said first information of  
30 said originality information are the same.

35 26. The original data circulation method as claimed in claim 25, said method further comprising:

a step of concealing, by said first apparatus, a private key; and

a step of storing or obtaining, by said second apparatus, a hash value of said second apparatus which hash value is generated by applying a unidirectional function to a public key corresponding to one or a plurality of private keys; said first authentication step including: a step of authenticating said first apparatus by verifying that said first apparatus has a private key corresponding to said hash value.

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27. The original data circulation method as claimed in claim 25, wherein said sending step includes a step of sending a third party certificate to said second apparatus, said third party certificate being a certificate representing that said first apparatus is authenticated by one or a plurality of third parties, and said third party certificate corresponding to a certifier of a third party;

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said method further including: a step of storing or obtaining, by said second apparatus, third party information corresponding to one or a plurality of third parties;

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said first authentication step including: a step of authenticating said first apparatus by verifying that said first apparatus is an object to be authenticated in said third party certificate and that a certifier of said third party certificate is included in third parties in said third party information.

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28. The original data circulation method  
5 as claimed in claim 27, said method further  
comprising a step of storing or obtaining, by said  
second apparatus, third party accredited information  
corresponding to said first information and one or a  
plurality of third parties;  
10 said first authentication step including:  
a step of authenticating said first  
apparatus by verifying that said first apparatus is  
an object to be authenticated in said third party  
certificate and that a certifier of said third party  
15 certificate is included in third parties in said  
third party accredited information, said third  
parties corresponding to said first information and  
being extracted from said third party accredited  
information.

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29. The original data circulation method  
25 as claimed in claim 27, said method further  
comprising a step of storing or obtaining, said  
second apparatus, third party accredited information  
corresponding to said first information and one or a  
plurality of third parties;  
30 said first authentication step including:  
a step of authenticating said first  
apparatus by verifying that a certifier of said  
third party certificate is included in third parties  
extracted from said third party accredited  
35 information, said third parties corresponding to  
said first information and said second information.



5                   30. The original data circulation method  
as claimed in claim 25, said method further  
including:

                  a step of concealing, by said first  
apparatus, a private key; and

10                   a step of sending a public key certificate  
and a signature by a private key, said public key  
certificate being a public key of said private key  
to which a signature by a third party which trusts  
said first apparatus is provided;

15                   a step of identifying, by said second  
apparatus, the public key of said third party by  
verifying said public key certificate; and

                  a step of storing or obtaining one or a  
plurality of hash values;

20                   said first authentication step including:  
a step of authenticating said first  
apparatus by verifying that said signature by using  
said public key included in said public key  
certificate and by verifying that information  
generated by applying a unidirectional function to  
25                   said public key of said third party is included in  
said hash values.

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                  31. The original data circulation method  
as claimed in claim 25, said method further  
including a step of storing or obtaining, by said  
second apparatus, user accredited information  
35                   corresponding to said first information and one or a  
plurality of third parties;

                  said first authentication step including:

a step of authenticating said first apparatus by verifying that said source apparatus is included in information corresponding to said first apparatus extracted from said first information by  
5 using said user accredited information.

10 32. The original data circulation method as claimed in claim 25, said method further including a step of storing or obtaining, by said second apparatus, user accredited information  
15 corresponding to one or a plurality of said first apparatuses from said first information and said second information;  
said first authentication step including:  
a step of authenticating said first  
apparatus by verifying that said source apparatus is  
20 included in information on said first apparatuses extracted from said user accredited information, said information corresponding to said first information and second information.

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33. An original data circulation system for storing or circulating original data which is  
30 digital information, said system comprising:  
a first apparatus which includes sending means for sending originality information, said originality information including first information which corresponds to an apparatus and second  
35 information which is data or information corresponding to the data; and  
a second apparatus which includes:

identifying means for identifying a source apparatus of said originality information;

a first authentication means for determining that said originally information is  
5 valid when said source apparatus is authenticated;  
and

a second authentication means for determining said originality information is valid only when said source apparatus and an apparatus  
10 corresponding to said first information of said originality information are the same.

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34. The original data circulation system as claimed in claim 33, wherein said first apparatus further includes means for concealing a private key;

said second apparatus further including  
20 means for storing or obtaining a hash value of said second apparatus which hash value is generated by applying a unidirectional function to a public key corresponding to one or a plurality of private keys;  
and

25 said first authentication means of said second apparatus authenticating said first apparatus by verifying that said first apparatus has a private key corresponding to said hash value.

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35. The original data circulation system as claimed in claim 33, wherein said sending means  
35 includes means for sending a third party certificate to said second apparatus, said third party certificate being a certificate representing that

said first apparatus is authenticated by one or a plurality of third parties, and said third party certificate corresponding to a certifier of a third party;

5           said second apparatus including means for storing or obtaining third party information corresponding to one or a plurality of third parties; and

                  said first authentication means  
10    authenticating said first apparatus by verifying that said first apparatus is an object to be authenticated in said third party certificate and that a certifier of said third party certificate is included in third parties in said third party  
15    information.

20           36. The original data circulation system as claimed in claim 35, wherein said second apparatus includes means for storing or obtaining third party accredited information corresponding to said first information and one or a plurality of  
25    third parties;

                  said first authentication means  
          authenticating said first apparatus by verifying that said first apparatus is an object to be authenticated in said third party certificate and  
30    that a certifier of said third party certificate is included in third parties in said third party accredited information, said third parties corresponding to said first information and being extracted from said third party accredited  
35    information.

10        said first authentication means  
      authenticating said first apparatus by verifying  
      that a certifier of said third party certificate is  
      included in third parties extracted from said third  
      party accredited information, said third parties  
      corresponding to said first information and said  
15    second information.

means for concealing a private key; and  
means for sending a public key certificate  
25 and a signature by a private key, said public key  
certificate being a public key of said private key  
to which a signature by a third party which trusts  
said first apparatus is provided;

means for storing or obtaining one or a plurality of hash values; and

35           said first authentication means  
authenticating said first apparatus by verifying  
that said signature by using said public key

included in said public key certificate and by verifying that information generated by applying a unidirectional function to said public key of said third party is included in said hash values.

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39. The original data circulation system as claimed in claim 33, wherein said second apparatus includes means for storing or obtaining user accredited information corresponding to said first information and one or a plurality of third parties;

15        said first authentication means authenticating said first apparatus by verifying that said source apparatus is included in information corresponding to said first apparatus extracted from said first information by using said user accredited information.

25        40. The original data circulation system as claimed in claim 33, wherein said second apparatus includes means for storing or obtaining user accredited information corresponding to one or a plurality of said first apparatuses from said first information and said second information;

30        said first authentication means authenticating said first apparatus by verifying that said source apparatus is included in information on said first apparatuses extracted from said user accredited information, said information corresponding to said first information and second information.

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originality information generation means  
10 for generating originality information which  
includes first information corresponding to said  
issuer apparatus and second information  
corresponding to data or information corresponding  
to the data; and

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means for concealing a private key; and

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43. The issuer apparatus as claimed in claim 41, comprising means for generating said second information by applying an unidirectional function to said data.

44. The issuer apparatus as claimed in  
claim 43, wherein said second information is an  
5 identifier which identifies contents in a network.

10 45. A user apparatus in an original data  
circulation system for storing or circulating  
original data which is digital information, said  
user apparatus comprising:

15 originality information sending means for  
sending originality information which includes first  
information corresponding an apparatus and second  
information corresponding to data or information  
corresponding to the data;

20 identifying means for identifying a source  
apparatus of said originality information which is  
sent from an apparatus;

25 authentication means for determining that  
said originality information is valid when said  
source apparatus is authenticated or when said  
apparatus corresponding to said first information  
and said source apparatus is the same; and

30 storing means for storing said originality  
information when said authentication means  
determines that said originality information is  
valid.

35 46. The user apparatus as claimed in claim  
45, comprising means for deleting said originality  
information when said user apparatus sends said



originality information.

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47. A collector apparatus in an original data circulation system for storing or circulating original data which is digital information, said collector apparatus comprising:

10 identifying means for identifying a source apparatus of originality information;

authentication means for authenticating said source apparatus; and

15 data processing means for performing a process corresponding to said data or data corresponding to said second information when said authentication means determines that said originality information which is sent to said collector apparatus is valid.

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48. The collector apparatus as claimed in claim 47, said collector apparatus further comprising means for storing or obtaining issuer information;

25 said data processing means performing a process corresponding to said data or data corresponding to said second information when said authentication means determines that said originality information which is sent to said collector apparatus is valid and when said issuer apparatus corresponding to said first information is  
30 included in said issuer information.  
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an issuer apparatus including:  
first originality information generation  
means for generating originality information which  
includes first information corresponding to said  
35 issuer apparatus and second information  
corresponding to data or information corresponding  
to the data; and

first originality information sending  
means for sending said originality information;  
a user apparatus including:

first originality information sending  
5 means for sending originality information which  
includes first information corresponding to an  
apparatus and second information corresponding to  
data or information corresponding to the data;

first identifying means for identifying a  
10 source apparatus of said originality information  
which is sent from an apparatus;

first authentication means for determining  
that said originality information is valid when said  
source apparatus is authenticated or when said  
15 apparatus corresponding to said first information  
and said source apparatus is the same; and

storing means for storing said originality  
information when said first authentication means  
determines that said originality information is  
20 valid; and

a collector apparatus including:  
second identifying means for identifying a  
source apparatus of originality information;

second authentication means for  
25 authenticating said source apparatus; and

data processing means for performing a  
process corresponding to said data or data  
corresponding to said second information when said  
second authentication means determines that said  
30 originality information which is sent to said  
collector apparatus is valid.

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51. The original data circulation system  
as claimed in claim 49, said collector apparatus

further comprising means for sending said originality information sent from said user apparatus to said issuer apparatus;

5           said issuer apparatus further comprising:  
          means for verifying that said originality information is generated by said issuer apparatus;  
          means for verifying that said originality information is sent via a valid route;  
          means for verifying that said data  
10 corresponding to said second information has been processed by said data processing means; and  
          means for providing a value according to said data to said collector apparatus.

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52. The original data circulation system as claimed in claim 49, said issuer apparatus  
20 further comprising means for adding a usable number of said data as count information to said originality information;

          said user apparatus further comprising means for verifying said count information;  
25           said collector apparatus further comprising means for verifying said count information;

          wherein said user apparatus can use said data said usable number of times.

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53. The original data circulation system  
35 as claimed in claim 49, wherein an apparatus in said data circulation system sends session information which has uniqueness in said data circulation system

when said apparatus sends said originality information;

an apparatus of the sending side which sends said originality information stores said originality information and said session information in said apparatus of the sending side;

an apparatus of the receiving side sends said session information to said apparatus of the sending side when receiving said originality information; and

said apparatus of the sending side deletes said originality information and said session information which are stored in said apparatus of the sending side.

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54. The original data circulation system as claimed in claim 49, said user apparatus further comprising means for generating said originality information.

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55. A computer readable medium storing program code for causing a computer in an original data circulation system to store or circulate original data which is digital information, said computer readable medium comprising:

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first program code means which is loaded in a first apparatus, first program code means comprising sending program code means for sending originality information, said originality information including first information which corresponds to an apparatus and second information

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a second program code means which is loaded in a second apparatus, said second program code means comprising:

first authentication program code means  
10 for determining that said originally information is  
valid when said source apparatus is authenticated;  
and

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said second program code means further comprising program code means for storing or obtaining a hash value of said second apparatus which hash value is generated by applying a unidirectional function to a public key corresponding to one or a plurality of private keys;

said first authentication program code means including program code means for authenticating said first apparatus by verifying that said first apparatus has a private key corresponding to said hash value.

57. The computer readable medium as  
5 claimed in claim 55, said sending program code means  
including:

program code means for sending a third  
party certificate to said second apparatus, said  
third party certificate being a certificate  
10 representing that said first apparatus is  
authenticated by one or a plurality of third parties,  
and said third party certificate corresponding to a  
certifier of a third party;

said second program code means further  
15 including program code means for storing or  
obtaining third party information corresponding to  
one or a plurality of third parties; and

said first authentication program code  
means including program code means for  
20 authenticating said first apparatus by verifying  
that said first apparatus is an object to be  
authenticated in said third party certificate and  
that a certifier of said third party certificate is  
included in third parties in said third party  
25 information.

58. The computer readable medium as  
30 claimed in claim 57, said second program code means  
including program code means for storing or  
obtaining third party accredited information  
corresponding to said first information and one or a  
35 plurality of third parties;

said first authentication program code  
means including program code means for

authenticating said first apparatus by verifying  
that said first apparatus is an object to be  
authenticated in said third party certificate and  
that a certifier of said third party certificate is  
5 included in third parties in said third party  
accredited information, said third parties  
corresponding to said first information and being  
extracted from said third party accredited  
information.

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59. The computer readable medium as  
15 claimed in claim 57, said second program code means  
including program code means for storing or  
obtaining third party accredited information  
corresponding to said first information and one or a  
plurality of third parties;

20 said first authentication program code  
means including program code means for  
authenticating said first apparatus by verifying  
that a certifier of said third party certificate is  
included in third parties extracted from said third  
25 party accredited information, said third parties  
corresponding to said first information and said  
second information.

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60. The computer readable medium as  
claimed in claim 55, said first program code means  
including:

35 program code means for concealing a  
private key; and  
program code means for sending a public



key certificate and a signature by a private key, said public key certificate being a public key of said private key to which a signature by a third party which trusts said first apparatus is provided;

5           said second program code means including:  
          program code means for identifying the public key of said third party by verifying said public key certificate; and

          program code means for storing or  
10   obtaining one or a plurality of hash values;  
          said first authentication program code means including program code means for authenticating said first apparatus by verifying said signature by using said public key included in  
15   said public key certificate and by verifying that information generated by applying a unidirectional function to said public key of said third party is included in said hash values.

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61. The computer readable medium as claimed in claim 55, said second program code means  
25   including program code means for storing or obtaining user accredited information corresponding to said first information and one or a plurality of third parties;

          said first authentication program code  
30   means including program code means authenticating said first apparatus by verifying that said source apparatus is included in information corresponding to said first apparatus extracted from said first information by using said user accredited  
35   information.

62. The computer readable medium as  
claimed in claim 55, said second program code means  
5 including program code means for storing or  
obtaining user accredited information corresponding  
to one or a plurality of said first apparatuses from  
said first information and said second information;  
said first authentication program code  
10 means including means for authenticating said first  
apparatus by verifying that said source apparatus is  
included in information on said first apparatuses  
extracted from said user accredited information,  
said information corresponding to said first  
15 information and second information.

63. A computer readable medium storing  
20 program code for causing a computer in an original  
data circulation system to store or circulate  
original data which is digital information, said  
computer being used as an issuer apparatus, said  
25 computer readable medium comprising:  
originality information generation program  
code means for generating originality information  
which includes first information corresponding to  
said issuer apparatus and second information  
30 corresponding to data or information corresponding  
to the data; and  
originality information sending program  
code means for sending said originality information.

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64. The computer readable medium as claimed in claim 63, further comprising:

program code means for concealing a private key; and

5        program code means for generating a hash value of said issuer apparatus as said first information, said hash value is generated from a public key of said private key by applying a unidirectional function.

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65. The computer readable medium as claimed in claim 63, further comprising program code means for generating said second information by applying an unidirectional function to said data.

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66. The computer readable medium as claimed in claim 65, further comprising program code means for using an identifier which identifies contents in a network as said second information.

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67. A computer readable medium storing program code for causing a computer in an original data circulation system to store or circulate original data which is digital information, said computer being used as a user apparatus, said

30        computer readable medium comprising:

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originality information sending program code means for sending originality information which

includes first information corresponding to an apparatus and second information corresponding to data or information corresponding to the data;

identifying program code means for  
5 identifying a source apparatus of said originality information which is sent from an apparatus;

authentication program code means for  
determining that said originality information is  
valid when said source apparatus is authenticated or  
10 when said apparatus corresponding to said first  
information and said source apparatus is the same;  
and

storing program code means for storing  
said originality information when said  
15 authentication program code means determines that  
said originality information is valid.

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68. The computer readable medium as  
claimed in claim 67, further comprising program code  
means for deleting said originality information when  
said user apparatus sends said originality  
25 information.

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69. A computer readable medium storing  
program code for causing a computer in an original  
data circulation system to store or circulate  
original data which is digital information, said  
computer being used as a collector apparatus, said  
35 computer readable medium comprising:

identifying program code means for  
identifying a source apparatus of originality

information;

authentication program code means for authenticating said source apparatus; and

5 data processing program code means for performing a process corresponding to said data or data corresponding to said second information when said authentication program code means determines that said originality information which is sent to said collector apparatus is valid.

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70. The computer readable medium as  
15 claimed in claim 69, further comprising:

program code means for storing or obtaining issuer information;

20 said data processing program code means including program code means for performing a process corresponding to said data or data corresponding to said second information when said authentication program code means determines that said originality information which is sent to said collector apparatus is valid and when said issuer  
25 apparatus corresponding to said first information is included in said issuer information.

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71. A computer readable medium storing program code for causing computers in an original data circulation system to store or circulate original data which is digital information, said  
35 computer readable medium comprising:

issuer program code means which is loaded in an issuer apparatus, said issuer program code

first originality information generation program code means for generating originality information which includes first information corresponding to said issuer apparatus and second information corresponding to data or information corresponding to the data; and

first originality information sending program code means for sending said originality information;

user program code means which is loaded in a user apparatus, said user program code means including:

first originality information sending program code means for sending originality information which includes first information corresponding to an apparatus and second information corresponding to data or information corresponding to the data;

first identifying program code means for identifying a source apparatus of said originality information which is sent from an apparatus;

first authentication program code means for determining that said originality information is valid when said source apparatus is authenticated or when said apparatus corresponding to said first information and said source apparatus are the same; and

storing program code means for storing said originality information when said first authentication program code means determines that said originality information is valid; and

collector program code means which is loaded in a collector apparatus, said collector program code means including:

second identifying program code means for identifying a source apparatus of originality

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